

Lincoln County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors 6/11/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 9 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Lincoln County economy.¹

These 9 sectors have a total direct output of approximately \$78.1 million and support 412 jobs in Lincoln County. Running the model for all 9 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Lincoln County Economy								
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product		
Direct Effect	412.1	22.52%	\$17,855,022	16.69%	\$78,141,119	73.06%		
Indirect Effect	104.8	5.73%	\$5,882,390	5.50%	\$11,755,782	10.99%		
Induced Effect	15.2	0.83%	\$911,254	0.85%	\$1,754,360	1.64%		
Total Effect	532.1	29.08%	\$24,648,666	23.05%	\$91,651,261	85.70%		

As shown in the above table, agriculture, food, and food processing sectors support **532 jobs**, or **29.08%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$91.7** million, roughly **85.70%** of the economy.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 9 agriculture, food, and food processing sectors is approximately \$24.6 million, or 23.05% of the GRP. This indicates that personal income, business income, and taxes generated by these sectors account for 23.05% of the total economy.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting: http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **262 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Lincoln County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment				
Sector	Total Employment	Total Output		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	262.1	\$31,808,845		
Grain farming	67.5	\$25,939,454		
All other crop farming	40.5	\$3,228,318		
Wholesale trade	30.5	\$5,393,385		
Support activities for agriculture and forestry	24.7	\$1,247,165		
Animal production, except cattle and poultry and eggs	22.6	\$3,024,197		
Oilseed farming	9.7	\$10,595,687		
Monetary authorities and depository credit intermediation	8.2	\$1,352,861		
Dairy cattle and milk production	5.4	\$2,760,722		
Real estate	5.2	\$365,342		

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately \$31.8 million to the Lincoln County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output				
Sector	Total Employment	Total Output		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	262.1	\$31,808,845		
Grain farming	67.5	\$25,939,454		
Oilseed farming	9.7	\$10,595,687		
Wholesale trade	30.5	\$5,393,385		
All other crop farming	40.5	\$3,228,318		
Animal production, except cattle and poultry and eggs	22.6	\$3,024,197		
Dairy cattle and milk production	5.4	\$2,760,722		
Monetary authorities and depository credit intermediation	8.2	\$1,352,861		
Support activities for agriculture and forestry	24.7	\$1,247,165		
Maintenance and repair construction of nonresidential structures	4.7	\$658,220		

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Lincoln County economy.

All Agriculture, Food, and Food Processing Sectors					
Sector	Total Employment	Total Output			
Oilseed farming	9.7	\$10,595,687.09			
Grain farming	67.5	\$25,939,453.56			
Vegetable and melon farming	0.6	\$147,294.97			
All other crop farming	40.5	\$3,228,317.79			
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	262.1	\$31,808,845.09			
Dairy cattle and milk production	5.4	\$2,760,722.29			
Poultry and egg production	0.4	\$347,674.24			
Animal production, except cattle and poultry and eggs	22.6	\$3,024,196.53			
Bread and bakery product, except frozen, manufacturing	3.2	\$288,927.37			

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Lincoln County, the retail sector was omitted.